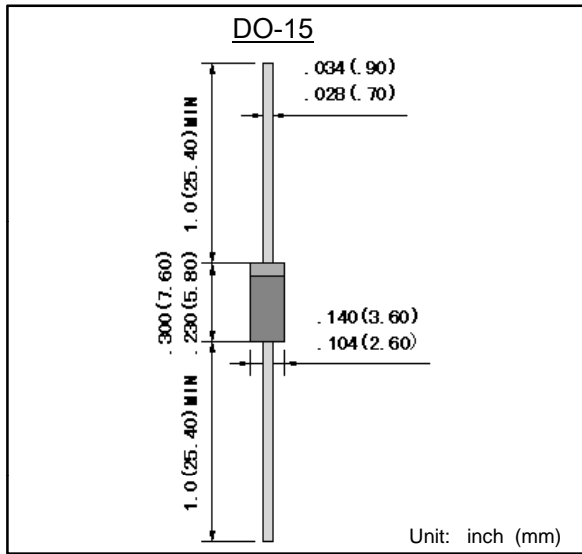




塑封肖特基二极管  
反向电压 40 ~ 200 V  
正向电流 2.0 A

Schottky Barrier Plastic Rectifiers  
Reverse Voltage 40 ~ 200 V  
Forward Current 2.0 A



## 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力强 High forward surge capability
- 高信赖性 High reliability
- 高温焊接保证 High temperature soldering guaranteed:  
260°C/10 秒, 引线长度:0.375" (9.5mm)  
260°C/10seconds,9.5mm lead length
- 引线 and 管体皆符合RoHS标准  
Lead and body according with RoHS standard
- 型号后缀“-F”标记无卤素产品  
Green compound with suffix "-F" on Marking

## 机械数据 Mechanical Data

- 封装外形:DO-15 塑封 Case:DO-15 Molded plastic
- 环氧树脂:UL 易燃等级:94V-0  
Epoxy:UL 94V-0 rate flame retardant
- 引脚:镀锡,无铅 Lead: Pure tin plated, lead free

## 最大值和特性 TA = 25°C 除非另有规定。

### Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	SB 240	SB 260	SB 2100	SB 2150	SB 2200	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	40	60	100	150	200	V
最大均方根电压 Maximum RMS voltage	$V_{RMS}$	28	42	70	105	140	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	40	60	100	150	200	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	2.0					A
正向不重复浪涌电流 8.3 ms 单一正弦半波 Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	$I_{FSM}$	50					A
最大正向电压 @IF=2.0A Maximum forward voltage	$V_F$	0.50	0.70	0.85	0.92	0.95	V
最大反向电流 @V <sub>DC</sub> TA = 25°C Maximum reverse current	$I_R$	500	100	50			μA
典型热阻 Typical thermal resistance (Note 1)	$R_{\theta JA}$	55					°C/W
工作结温 Operating junction temperature range	$T_J$	-55 --- +125		-55 --- +150			°C
存储温度 Storage temperature range	$T_{STG}$	-55 --- +150					°C

备注 Note:

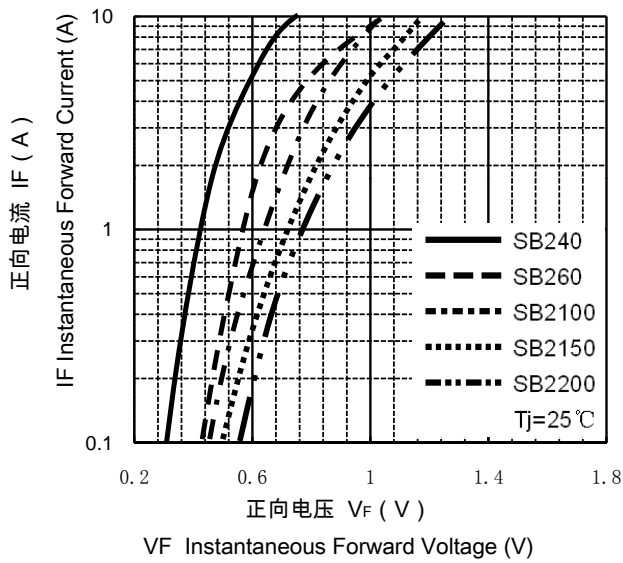
1) 引线长度 0.375" (9.5 mm) , 安装在PCB板上, 从PN结到周围环境的热阻。

1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

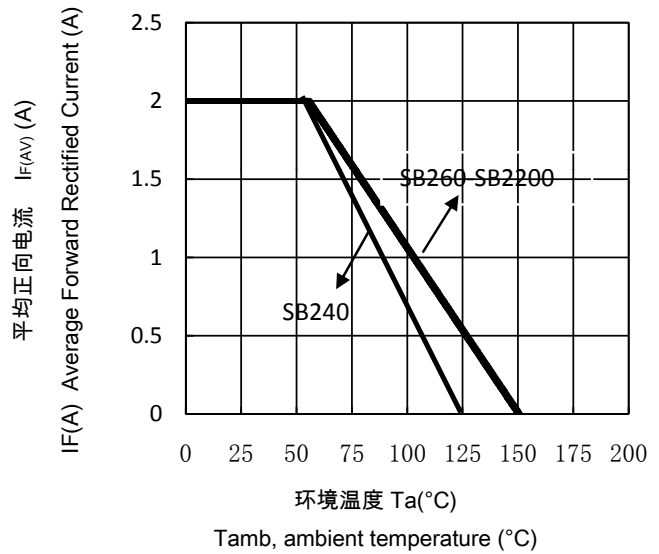


## 特性曲线 Characteristic Curves

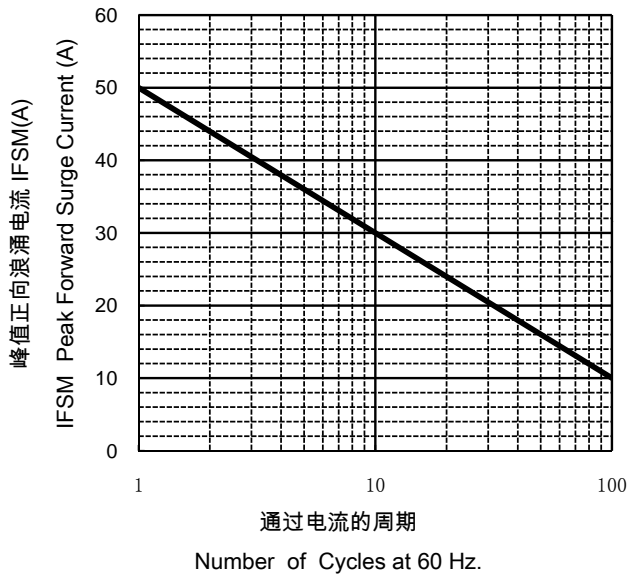
正向特性曲线 (典型值)  
TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线  
FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)  
MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



反向特性曲线  
Typical Reverse Characteristics

